PATENT/Docket No.: 6142.N CP

Serial No.: 09/213,888

Page No. 1

CERTIFICATE OF MAILING (37 CFR 1.8)

Date of Deposit with U.S. Postal Service:

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail under 37 CFR 1.8 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington D.C. 20231.

lulie K. Lyons, Legal Assistant

Name of Person Mailing Paper

Signature O

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit

1645

Examiner

S. Turner

Applicant(s)

ME Gurney, AM Pauley and J Li

Serial No.

09/213,888

Filed

17 December 1998

For

Human Sel-10 Polypeptides and Polynucleotides that Encode Them

Commissioner of Patents and Trademarks

Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL **UNDER 37 CFR 1.97 AND 1.98**

Sir:

Information Disclosed. The information disclosed consists of the following:

- Form PL-1449. Provided herewith are copies of patent(s) and/or publication(s) as listed in the [X] attached form PL-1449.
 - []At least to the extent required under §1.98(a)(3), a concise explanation of the relevance of references listed in form PL-1449 is:

- 1	contained	in th	ie above-ca	ntioned spe	ecitication	as fil	ed:
	Containor	* 141 (11	ic accre ca	priorica spe	CITICALION	1 43 111	vu,

- provided in a communication enclosed with this paper; []
- provided in the International Search Report enclosed with this paper; and/or
- not necessary as all of the references cited are in the English language.

PATENT/Docket No.: 6142.N CP

Serial No.: 09/213,888

Page No. 2

Disclosure from Predecessor Application. Provided herewith is a copy (or the copy is already present in the present file wrapper in accordance with §1.53(d)) of one or more forms PL-1449 and/or search/examination reports of record in this or a predecessor application, Serial No. filed , the benefit of which is claimed under 35 USC 120. Copies of references are present in the prosecution history of the referenced application and are not supplied herewith pursuant to §1.98(d).

Basis for Consideration. This information disclosure statement is entitled to consideration by the Office under:

- §1.97(b), as being filed within three months of the filing date of the above-captioned application and/or the date of entry of the National Stage, if later, and/or before the mailing date of the first Office action on the merits. Applicant(s) is/are unaware that any office action has issued in this case. However, in the event a first office action has issued, prior to the mailing of this document, then authorization is given to charge the late fee to the deposit account identified below.
 [X] §1.97(c), as being filed after the period specified in §1.97(b), but before the mailing date of a final action under §1.113 and/or the notice of allowance under §1.311.
- [X] §1.97(c), as being filed after the period specified in §1.9/(b), but before the mailing date of a final action under §1.113 and/or the notice of allowance under §1.311.

 Consideration of this information disclosure statement at this time is requested for the reason checked below:
 - [X] Authorization is hereby provided to charge Deposit Account No. 21-0718 the fee set forth in §1.17(p), \$240.00, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
 - [] A statement as specified in 37 CFR 1.97(e) below.
- [] $\S1.97(d)$, as being filed after the period specified in $\S1.97(c)$, but on or before payment of the issue fee and is accompanied by:
 - [] Authorization to charge Deposit Account No. 21-0718 the fee set forth in §1.17(i), \$130.00, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
 - [] A petition requesting consideration of the information disclosure statement; and
 - [] A statement as specified in 37 CFR 1.97 (e) below.
- [] §1.97(e), this is a supplemental information disclosure statement. A prior information disclosure statement has already been filed. Applicant certifies, as provided in 37 CFR 1.97 (e), that

PATENT/Docket No.: 6142.N CP

Serial No.: 09/213,888

Page No. 3

[] Each new item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this statement.

[] No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing below, after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this statement.

Disclaimer. In accordance with §1.97(g) and (h), the filing of this information disclosure statement is not to be construed as an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56, and is not to be construed as a representation that a search has been made.

Respectfully submitted,

Edward F. Rehberg, Attorney

Registration No. 34,703

Pharmacia & Upjohn Company Global Intellectual Property 301 Henrietta Street Kalamazoo, Michigan 49001

Telephone No. (616) 833-7829 or (616) 833-9500 Telefax No. (616) 833-8897 or (616) 833-2316

Attachment(s)

[X] Form 1449 with copies of reference(s)

[] Form 1449 from predecessor application (no references)

[] Communication providing concise explanation of relevance

[X] International Search Report

		Atty. Docket No. 6142.N CP			Serial No. 09/213,888				
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)									
				Applicant	Adele M. P	auley, M	ark E. Gurr	ney, Jinhe	e Li
				Filing Date	97	Group 1641			
			U.S. PA	TENT DOCUM	ENTS				
Examiner Initial		Document Number	Date	Name		Class	Subclass	Filing I If Appr	
	AA								
	AB								
	AC								
	AD							,	
				PATENT DOC	UMENTS	T 62		ı	
		Document Number	Date	Country		Class	Subclass	Transla	ation
								Yes	No
	AE	WO 97/11956	3 April 1997	World		C07H	21/04	Х	
	AF								
	AG								
			OTHER PRIOR ART (I	ncluding Author, Tit	e, Date, Pertinent	Pages, Etc.)		
	AH	F55B12.3 GenPep Report (WMBL locus CEF55B12, accession z79757) Sept. 1990							
	AI	D.R. Borchelt, G. Thinakaran, C.B. Eckman, M.K. Lee, F. Davenport, T. Ratovitsky, CM. Prada, G. Kim, S. Seekins, D. Yager, H.H. Slunt, R. Wang, M. M. Seeger, A.I. Levey, S.E. Gandy, N.G. Copeland, N.A. Jenkins, D.L. Price, S.G. Younkin, S.S. Sisodia, "Familial Alzheimer's Disease-Linked Presentlin 1 Variants Elevate A\(\beta\)1-40 Ratio In Vitro and In Vivo," Neuron, 1996, 17:1005-1013							
	AJ	D.R. Borchelt, T. Ratovitski, J. van Lare, M.K. Lee, V. Gonzales, N.A. Jenkins, N.G. Copeland, D.L. Price, S.S. Sisodia, "Accelerated Amyloid Deposition in the Brains of Transgenic Mice Coexpressing Mutant Presentlin 1 and Amyloid PrecursorProteins," Neuron, 1997, 19:939-945							
	 AK M. Citron, D. Westaway, W. Xia, G. Carlson, T. Diehl, G. Levesque, K. Johnson-Wood, M. Lee, P. Seubert, A. Davis, D. Kholodenko, R. Motter, R. Sherrington, B. Perry, H. Yao, R. Strome, I. Lieberburg J. Rommens, S. Kim, D. Schenk, P. Fraser, P. St George Hyslop, D.J. Selkoe, "Mutant presentlins of Alzheimer's disease increase production of 42-residue amyloid β-protein in both transfected cells and transgenic mice," Nat. Med., 1997, 3:67-72 							eberburg, is of	
	AL	The state of the s						Seeger, 030	
	AM	Yager, D. Mor	kman, C. Zehr, X. Yu, (gan, M.N. Gordon, L. I 3) in brains of mice exp	Holcomb, L. Refe	olo, B. Zenk, J	.Hardy, i	S. Younkin,	"Increase	ı, D. ≥d
	AN	I. Greenwald, elegans," Natu	G. Seydoux, "Analysis re, 1990, 346: 197-9	of gain-of-funct	on mutations	of the lin	-12 gene of (Caenorha	bditis
	AO	M. Hochstrass	ser, "Ubiquitin-depende	ent protein degre	adation," Anni	al Revie	w of Genetic	es, 1996,	30:405-

Trom on proper	ADDIVIOUS CAMED DA VEDITO VAL	•	Docket No. 42.N CP	Serial No. 09/213,888		
	CRENCES CITED BY APPLICANT Jse several sheets if necessary)					
		Applicant	Adele M. Pauley, M	fark E. Gurney, Jinhe Li		
		Filing Date	19 Dec., 1997	Group 1641		
AP		i, I. Greenwald, "sel-10, a negative regulator of lin-12 activity in ember of the CDC4 family of proteins," Genes & Development, 1997				
AQ	T.W. Kim, W.H. Pettingell, O.G. Halln and Proteasomal Degradation of Prese 272: 11006-11010					
AR	D.M. Kovacs, H.J. Fausett, K.J. Page, Hallmark, R. Mancini, K.M. Felsenste presenilins 1 and 2: Neronal expressio mammalian cells," Nat. Med., 1996, 2:	in, B.T. Hyman n in brain and i	R.E. Tanzi, W. Wasco	o,"Alzheimer-associated		
AS	D. Levitan, T.G. Doyle, D. Brousseau, "Assessment of normal and mutant hun Acad. Sci. USA, 1996, 93: 14940-4					
AT	AT D. Levitan, I. Greenwald, "Facilitation of lin-12-mediated signalling by sel-12, a Caenorhabditis elegans S182 Alzheimer's disease gene," Nature, 1995, 377: 351-4					
AU	AU E. Levy-Lahad, W. Wasco, P. Poorkaj, D.M. Romano, J. Oshima, W.H. Pettingell, CE. Yu, P.D. Jondro, S.D. Schmidt, K. Wang, A.C. Crowley, YH. Fu, S.Y. Guenette, D. Galas, E. Nemens, E.M. Wijsman, T.D. Bird, G.D. Schellenberg, R.E. Tanzi, "Candidate Gene for the Chromosome 1 Familial Alzheimer's Disease Locus," Science, 1995, 269: 973-977					
AV	J. Li, J. Ma, H. Potter, "Identification and expression analysis of a potential familial Alzheimer disease gene on chromosome 1 related to AD3," Proc. Natl. Acad. Sci. U.S.A., 1995, 92:12180-12184					
AW	M. Mercken, H. Takahashi, T. Honda, Z. Sato, M. Murayama, Y. Nakazato, K. Noguchi, K. Imahori, A. Takashima, "Characterization of human presentlin 1 using N-terminal specific monoclonal antibodies: Evidence that Alzheimer mutations affect proteolytic processing," FEBS Lett., 1996, 389:297-303					
AX	AX M. Mullan, F. Crawford, K. Axelman, H. Houlden, L. Lilius, B. Winblad, L. Lannfelt, "A pathogenic mutation for probable Alzheimer's disease in the APP gene at the N-terminus of β-amyloid," Nat Genet, 1992 Aug, 1(5):345-7					
AY	J. Perez-Tur, S. Froelich, G. Prihar, R. Crook, M. Baker, K. Duff, M. Wragg, F. Busfield, C. Lendon, R.F. Clark, P. Roques, R.A. Fuldner, J. Johnston, R. Cowburn, C. Forsell, K. Axelman, L. Lilius, H. Houlden, E. Karran, G.W. Roberts, M. Rossor, M.D. Adams, J. Hardy, A. Goate, L. Lannfelt, M. Hutton, "A Mutation in Alzheimer's disease destroying a splice acceptor site in the presentin-1 gene," Neuroreport, 1995, 7:297-301					
AZ	E.I. Rogaev, R. Sherrington, E.A. Rogaeva, G. Levesque, M. Ikeda, Y. Liang, H. Chi, C. Lin, K. Holman, T. Tsuda, L. Mar, S. Sorbi, B. Nacmais, S. Piacentini, L. Amaducci, I. Chumakov, D. Cohen, L. Lannfelt, P.E. Fraser, J.M. Rommens, P.H. St George-Hyslop, "Familial Alzheimer's disease in kindreds with missense mutations in a gene on chromosome 1 related to the Alzheimer's disease type 3 gene," Nature, 1995, 376: 775-778					
ВВ	D. Scheuner, C. Eckman, M. Jensen, X. Kukull, E. Larson, E. Levy-Lahad, M. Wasco, L. Lannfelt, D. Selkoe, S. Your plaques of Alzheimer's disease is increased familial Alzheimer's disease," Nat. Me	Viitanen, E. Peakin, "Secreted a ased in vivo by t	skind, P. Poorkaj, G. S myloid β-protein simil he presenilin 1 and 2 d	chellenberg, R. Tanzi, W. Lar to that in the senile		

LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)			Atty. Docket No. 6142.N CP		Serial No. 09/213,888		
	, , , ,			Applicant Adele M. Pauley, Mark E. Gurney, Jinhe			
			Filing Date	19 Dec., 1997	Group 1641		
	BC	R. Sherrington, E.I. Rogaev, Y. Liang, K. Holman, T. Tsuda, L. Mar, JF. Fo L. Nee, I. Chumakov, D. Pollen, A. Bro J.L. Haines, M.A. Pericak-Vance, R.E. P.H. St George-Hyslop, "Cloning of a g disease," Nature, 1995, 375: 754-760	ncin, A.C. Bruni, ookes, P. Sansea Tanzi, A.D. Rose	, M.P. Montesi, S. Sor u, R.J. Polinsky, W. W es, P.E. Fraser, J.M. I	bi, I. Rainero, L. Pinessi, Zasco, H.A.R. Da Silva, Rommens,		
	BD	M. Sundaram, I. Greenwald, "Genetic Caenorhabditis elegans," Genetics, 199	Studies of Hypomorph	ic lin-12 Mutants in			
	BE M. Sundaram, I. Greenwald, "Suppressors of a lin-12 Hypomorph Define Genes That Interact With Both lin-12 and glp-1 in Caenorhabditis elegans," Genetics, 1993, 135: 765-83						
Examiner	-		Date Considered				

		Atty. Docket No.			Serial No.					
			6142.N CP			09/213, 888				
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)										
				Applicant ME Gurney, et. al.						
	Filing Date 6/19/1999						Group 1647			
			U.S. PA	ATENT DOCUMI	ENTS					
Examiner Initial		Document Number	Date	Name		Class	Subclass	Filing Da If Approp		
	AA									
	AB									
	AC									
	AD									
	AE									
	AF									
	AG									
	AH				 					
	AI					<u> </u>				
				PATENT DOCU	MENTS	·	,	,		
		Document Number	Date	Country		Class	Subclass	Translati	on	
						ļ		Yes	No	
	AJ		}						ļ	
	AK					ļ				
	AL								ļ	
	AM									
	AN			<u></u>		<u> </u>			L	
	,	T	OTHER PRIOR ART (In	cluding Author, Title,	Date, Pertinent F	Pages, Etc.)				
	AO	Choh, PNAS 77	(6): 3211-14, 1980							
	AP	Jenkins, PCR M	lethods and Appl., S77-8	32, 1994						
	AQ	Crooke, Antises	ne & Nucl. Acid Drug D	ev., 8:115-22, 199	8					
	AR	Genbank Access	sion No. AA625610; Octo	ober 15, 1997					· · · · · · · · · · · · · · · · · · ·	
	AS	Genbank H2296	52 July 6, 1995							
	AT	Genbank H34371 July 19, 1995								
	AU	Sambrook et al.	, Cold Spring Harbor La	bs, 17-1-17.44, 19	989					
	AV	Skolnick et al.,	Trends in Biotech., 18(1)):34-39, 2000						
	AW	Yochem et al., J	. Mol. Biol., 195:233-45							

` P		Docket No. 42.N CP	Serial No. 09/213, 888		
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	Applicant Filing Date	ME Gurney, et. al. 6/19/1999	Group 1647		
Examiner	Date Considered				